• March-15-12 8:44:07 AM

Item ID: Revision ID:	D350-748-2	01		Accept	*N900	1040	100	)*	Setup	Start	*N	S1*
Item Name:	Crosstube Ins	stallation, High Aft								Stop	*NI	C2*
Start Date:	15/03/2012	Start Qty: 1.00	*1*		Cust Item	ın.			, .		IVI	.7/
Required Date:	04/04/2012	Req'd Qty: 1.00	*1*		Customer			•				
Reference:		· -•	• 1		. Customer	•						
Approvals:	Process Pla	an: 465	Date: 12/03/1	√Tooling:		Date:			Run	Start	I <i>N</i>	R1*
	QC:	· · · · · · · · · · · · · · · · · · ·	Date:	<b>SPC (Y/N):</b>		Date:				Stop	*N	R2*
Sequence ID/ Work Center II	)	Operation Description		Set Up/ Run Hours	TooLID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
Draw Nbr	Rev	vision Nbr									<del></del>	·
D350-748-241	F											
100				0.00					<del>-                                    </del>			
*100*		DOCUMENT CONTRO	DL									
DC	•	Memo	4	0000								
Document Control		Photocopy I	oluefile & type labels per P	PPD350-₹48-201	CHG002							
			Sept.		4					•		
						4 -						
110	•			0.00			· ·					
*110*		BENDING MACHINE	CROSSTUBES		~.		$\mathbb{W}_{-}$		. 1	7 -	4-3	)
CNC Bend 2		Memo		0.00		(				<u></u>	<u> </u>	
CNC Alpha 160 Ben	nder	Bend tube a Folio FT	s per Dwg D350-748-241 u	using CNC bender progra	am D350A and	,						
120		QC15- Crosstube Dimer	sional Check	0.00								
*120*				0,00		•						
QC		Memo		0.00			t					
Quality Control					NI	H.	<del></del>	~ 0				
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W/O:			WORK ORDER CHANGES									
DATE	STEP		PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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Part No:	- !	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed	l:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC	•	Corrective Action Section B		Verification	Approval	Approval			
DATE	STEP	Section A	Initial Chief P	Action Description Chief Eng	Sign & Date	Section C	Chief	QC Inspector			
12.4.11	110	to narrow after bending (1" narrow)	12/05/23 P/I=42	SCRAP P12.04.17	12-052	216/27	140/23 12/04/23 05/04/2	त्री <i>जे</i>			

# \*81523\*

Page 2

'March-15-12 8	3:44:07 AM				17 . 1						Ç
Item ID: Revision ID:	D350-748-20	01		Accept	*N900	040	100	)* 5	Setup Sta	rt *N	IS1*
Item Name:	Crosstube Inst	tallation, High Aft							Sto	p *N	IS2*
Start Date:	15/03/2012	Start Qty: 1.00	*1*		Cust Item I	D:					
Required Date	: 04/04/2012	Req'd Qty: 1.00	*1*		Customer:						
Reference:			•								
Approvals:	Process Pla	n:	Date:	Tooling:	Da	ate:		I	Run Sta	!/	IR1*
	QC:		Date:	_ SPC (Y/N):	Da	ate:			Sto	*N	IR2*
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
*195* HandFXtube	verch	. Memo	•	0.00					Lia	104/0	40
Hand Finishing Cro	sstubes	Temp:	osstube as per QSI010 4.3	ilssee	17/0 to 1	meta	Lev-				
		Start time: Finish time:_	·		Pro:	166	38				
127		QC5- Inspect part comple	eteness to step on W/O	0.00	as per 0=0	D350-	748-2	41 F. 1	<b>,</b>		
*127* QC Quality Control		Memo	•	0.00							

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W/O:				W	ORK ORDER CHANG	ANGES							
DATE	STEP		PRO	CEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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			·										
Part No	·		PAR #:	Fault Ca	tegory:	_ NCR: Yes	No DQ	<b>A</b> :	_ Date: _				
	R	esolution:		WORK ORDER NON-CONFO			Closed:		Date: _	<u> </u>			
NCR:			1	DER NON-CONFORMA	NCE (NC	R)							
DATE	STEP	De	scription of NC		Corrective Action Section			cation	Approval	Approval			
DAIL	JILF		Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		ion C	Chief Eng	QC Inspector			
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Work Ord		523		*815	23*		•				Page 3
Item ID: Revision ID:	D350-748-2	01		Accept	*N900	040	100	ገ* ፡	Setup Sta	rt *N	S1*
Item Name:	Crosstube Ins	tallation, High Aft							Sto	p *N	S2*
Start Date: Required Date Reference:	15/03/2012 e: 04/04/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1 <sup>:</sup> *1 <sup>:</sup>		Cust Item I Customer:	D:					
Approvals:	Process Pla	ın:	Date:	Tooling:	D	ate:	<del></del>	I	Run Sta	rt *N	R1*
	QC:		Date:	SPC (Y/N):		ate:			Sto	*N	R2*
Sequence ID/ Work Center I 130 *130* Crosstubes	ID	Operation Description Crosstubes Memo	.,,	Set Up/ Run Hours 0.00	Tool ID	Tool#	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Crosstubes		1-Drill Tube Set-up dr 2-Deburr 3-Engrave P 4-Remove a	ill table as per QSI 01	48-241 Using DT8876 Drill Jigs 10 per Dwg D350-748-241 rithin limits of D350-748-241		A	ė				

140

Quality Control

Memo

QC6- Inspect dimensions to drawing

0.00

0.00

W/O:		· · · · · · · · · · · · · · · · · · ·	!	W	ORK ORDER CHANG	CHANGES							
DATE	STEP		PRO	OCEDURE CH	ANGE	Ву	Date (	⊋ty ∣ Chi	proval ef Eng / od Mgr	Approval QC Inspector			
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Part No		·	PAR #:	Fault Cat	egory:	NCR: Yes	No DQA:		Date: _				
ů.	R	esolution:	<u> </u>	Dispositi	on:	QA: N/C Closed: Date:							
NCR:				WORK ORI	DER NON-CONFORMA	NCE (NCR	)						
DATE	STEP	Des	scription of NC		Corrective Action Secti		Verificat	ion Ap	proval	Approval			
DAIL	SIEF		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section	C Ch	ief Eng	QC Inspector			
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170

QC5- Inspect part completeness to step on W/O

Ensure certificate of conformity is attached

0.00

\*170\* QC

Packaging

Memo

0.00

Quality Control

usid + inspect attached cyctow10.

W/O:		<del>-</del>	WORK ORDER CHANGES										
DATE	STEP		PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No:	:	·	PAR #:	Fault Cat	tegory:	NCR: Yes No DQA: Date:							
	R	esolution:		Disposition:				sed:	·	Date:			
NCR: WORK ORDER NON-CONFOR				MANCE	(NCR)								
DATE	STEP	Des	scription of NC		Section B		Verifica	tion	Approval	Approval			
DATE	SIEP		Section A	Initial Chief Eng	Action Description Chief Eng	on	Sign & Date	Section		Chief Eng	QC Inspector		
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Item ID: Revision ID:	D350-748-2	01		Accept	*N900	<b>040</b>	100	<b>)*</b> s	etup Sta	i /J	S1*
Item Name:	Crosstube Inst	tallation, High Aft							Sto	p *N	S2*
Start Date: Required Date: Reference:	15/03/2012 04/04/2012	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					
Approvals:	Process Pla	n:	Date:	Tooling:	Da	ate:	-	R	tun Sta	rt *N	R1*
			Date:	_		ate:			Sto	D	R2*
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
*120* SprayPaint		SprayPaint <b>Mem</b> o		0.00							
Spray Painting		1-Prime insi	de crosstube as per QSI 0 ide of Tube as per Dart C	05 4.2	¥						
•				•							
190		QC14- Inspect Spray Pai	nt	0.00							
*190* <sup>QC</sup>		Memo		0.00							
Quality Control		Then, Wrap i	n plåstic bag to protect fr	om scratches							
200			•	. 0.00							
*200* Crosstubes		Crosstubes		0.00							
Crosstubes		2-Install Abr		0.00 t screw and washer D350-748-241 & QSI 035. r Dwg D350-748-241,Torq	ue to 60-80 IN-						

W/O:			WORK ORDER CHANGES										
DATE	STEP		PRO	CEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No	·		PAR #:	AR #: Fault Category: Disposition:				No DC	A:	_ Date: _			
		I		Disposition: WORK ORDER NON-CONFORM									
NCR:		V	WORK OR	DER NON-	CONFORM	ANCE (NCI	₹)			,			
DATE	CTED	Des	Cription of NC				ion B	Verif	ication	Approval	Approval		
DATE	STEP		Section A	Initial Chief Eng	Actic	n Description Chief Eng	Sign Date		tion C	Chief Eng	QC Inspector		
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**Work Order ID 81523** \*81523\* Page 6 March-15-12 8:44:07 AM Item ID: D350-748-201 Accept \*N900040100\* Setup Start **Revision ID:** Item Name: Crosstube Installation, High Aft Start Qty: 1.00 **Start Date:** 15/03/2012 **Cust Item ID: Req'd Qty:** 1.00 **Required Date:** 04/04/2012 **Customer:** Reference: Run Start Process Plan: **Approvals:** Date: Tooling: Date: Stop QC: SPC (Y/N): Date: Date: Sequence ID/ **Operation** Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description **Run Hours** Code Qty Qty Number Stamp 210 QC5- Inspect part completeness to step on W/O 0.00 \*210\* 0.00 Memo Quality Control 220 Pick Kit 0.00 \*220\* Packaging 0.00 Memo Packaging

0.00

0.00

230

Quality Control

QC4-100% Inspect kits for completeness

Memo

W/O:				W	ORK ORDER CHANG	GES				
DATE	STEP	<u>-</u>	PRO	DCEDURE CH	IANGE	Ву	Date	Qty	Approval Chief Eng /	Approval QC Inspector
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Part No			PAR #:	Fault Ca	tegory:	NCR: Yes	No DQ	A:	Date:	
	R	esolution:		Disposit	ion:	QA: N/C C	losed:		Date: _	<u> </u>
NCR:			,	WORK OR	DER NON-CONFORM	ANCE (NC	R)			· · · · · · · · · · · · · · · · · · ·
		Des	Description of NC			ction B	Verific	cation	Approval	Approval
DATE	STEP	ĺ	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		ion C	Chief Eng	QC Inspector
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Work Order ID 815	<b>52</b> 3
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March-15-12 8	3:44:07 AM			<u> </u>	1/.7							rage /
Item ID: Revision ID:	D350-748-2	01		Accept	*N900	040	100	)*	Setup	Start	*N:	S1*
Item Name:	Crosstube Ins	tallation, High Aft								Stop	*N:	S2*
Start Date:	15/03/2012	Start Qty: 1.00	*1*		Cust Item ID:							
Required Date	: 04/04/2012	Req'd Qty: 1.00	*1*		Customer:							
Reference:			•									
Approvals:	Process Pla	ın:	Date:	Tooling:	D	ate:	_	J	Run	Start		R1*
	QC:		Date:	SPC (Y/N):	D:	ate:				Stop	*NR2*	
Sequence ID/ Work Center I	D	Operation Description	\$. L	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
* <b>24</b> 0* Packaging		Packaging Memo		0.00								
Packaging		Identify and Location:	pack for shipping as per									
250		QC21- Final Inspection -	Work Order Release	0.00								
*250*												
QC		Memo		0.00								
Quality Control										a	MF	_

12-05-23

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W/O: WORK ORDER CHA						GES				
DATE	STEP		PR	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		· · · · · · · · · · · · · · · · · · ·	PAR #:	Fault Ca	tegory:	NCR: Yes	No DQ	A:	Date: _	
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NCR:				WORK OR	DER NON-CONFORM	ANCE (NC	R)			
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## **Picklist Print**

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Work Order ID: 81523

\*81523\*

Parent Item:

D350-748-201

\*D350-748-201\*

Parent Item Name: Crosstube Installation, High Aft

**Start Date:** 15/03/2012

**Required Date:** 04/04/2012

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev: A New Issue 06-07-05 JLM

IPP Rev: B Update qty of MS21042L5 06-09-12 KJ

IPP Rev C Combined manufacturing 08.04.02 EC verified by: DD

IPP Rev:D 08-06-24 revD as per dwg DD verified by:EC

IPP Rev: E 08.12.11 Step17 was step 21 KJ Verified by:EC IPP Rev:F

No

10.08.04 added QSI010 4.3 DD verf:EC

NAS1149D0363J Purchased

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Status Issued
D350-748-241TRN		Manufactured	No	B7337	70	110	Each	0.0000	1 /	1)	TI 1	17.42
*D350-748 Crosstube Turning Detail	R-241TF	N*		- ,,					**			72 7-3
ALS4-1032-225		Purchased	No			200	Each	1,102.000	1	1		
*AI S4-103	32-225*								**			

<b>Location</b>	Loc Qty	Loc Code				
ST281	1019					
108696	146					
110768	62					
118386	55				•	
118966	68					
120671	688					
ST282	83					
120410	70		<del></del>			
120451	13					
	200 Each	0.0000	1	1		
		2	<b>**</b>	-		

\*AN960.ID10\*

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AN960JD10

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Part No	:	; !	PAR #:	Fault Cate	egory:	NCR: Yes	No DQA:	Date: _	<del></del>
	R	esolution: 🕺		Disposition	on:	QA: N/C Cld	osed:	Date: _	
NCR:		İ		WORK ORE	ER NON-CONFORM	ANCE (NCR	)		
		Des	cription of NC			tion B	Verification	Approval	Approval
DATE	STEP		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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Work Order ID: 81523		*8	1523*	•					
Parent Item: D350-748-201			350-748-2	<b>11</b>					
Parent Item Name: Crosstube Install	ation, High Aft	. ,		( ) (			art Date: 15		<b>Required Date:</b> 04/04/2012
						St	tart Qty: 1.0	00	Required Qty: 1.00
D2856-400	Manufactured	No		200	f	199.5445	1.181	1.243158	
*D2856-400* Abrasion Strip							**		
			Location	Le	oc Qty	Loc Code			
			ST409	19	9.5445		,		
			63735		0.6696				
			68076 71164		0.3149 8.46				
			79551		190.1				, ,
1- cut as per dwg D2856									-
D3502-1	Manufactured	No		200	Each	39.0000	2	2	
*D3502-1*							**		
			Location	<u>L</u>	oc Qty	Loc Code			
			ST051		39				
			73419		19				
			74873		20				
MS21920-20	Purchased	No		200	Each	60.0000	2	2	
*M\$21920-20* Clamp (per MIL-DTL-8783C)							**		
·			<b>Location</b>	Le	oc Oty	Loc Code			
	•		LG050		60				
			116799		8				
			120475 120676		2 50				• •
			120070		30				

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Part No	:		PAR #:	Fault Ca	tegory:	NCR: Yes	No <b>DQ</b>	A:	_ Date: _			
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DATE	0750	Des	scription of NC			tion B	Verific	cation	Approval	Approval		
DATE	STEP		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		on C	Chief Eng	QC Inspector		
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Work Order ID: 81523 \*81523\* Parent Item: D350-748-201 \*D350-748-201\* Parent Item Name: Crosstube Installation, High Aft Start Date: 15/03/2012 **Required Date:** 04/04/2012 Start Qty: 1.00 Required Qty: 1.00 MS27039-1-10 No Purchased 200 Each 258.0000 \*MS27039-1-10\* \*\* Screw **Location** Loc Qty Loc Code GA 100 120449 100 ST291 158 120120 158 AN4-41A Purchased No 220 Each 387.0000 \*AN4-41A\* \*\* Bolt Location Loc Qty Loc Code ST360 387 115108 3 115705 7 117619 27 118451 50 118838 50 119328 100 120423 150 AN4-6A Purchased No 220 Each 1,649.000 16 16 \*AN4-6A\* \*\* Location Loc Qty Loc Code ST356 1649 119017 1649

<b>Dart Aerospace Ltd</b>	Dart	<b>Aeros</b>	pace	Ltd
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W/O:		-	1	W	ORK ORDER CHA	ANGES					
DATE	STEP		PRO	PROCEDURE CHANGE					Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		:	<u> </u>								
Part No	:	. !	PAR #:	Fault Cat	egory:	NC	R: Yes	No DQ	A:	Date: _	
	R	esolution:		Dispositi	on:	Q <i>A</i>	: N/C CI	osed:		Date: _	
NCR:				WORK ORI	DER NON-CONFO	RMANC	E (NCR	)			
DATE	STEP	De:	scription of NC		Corrective Action	Section B			cation	Approval	Approval
DAIL	SIEF		Section A	Initial Chief Eng	Action Descrip Chief Eng	tion 	Sign & Date	` Sect	ion C	Chief Eng	QC Inspector
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Work Order ID: 81				1523*						
	350-748-201		*[	)350-748-2	201*					
Parent Item Name:	Crosstube Installation	on, High Aft						art Date: 1		Required Date: 04/04/2012
•							S	tart Qty: 1	.00	Required Qty: 1.00
AN5-32A		Purchased	No		220	Each	256.0000	4	4	
*AN5-32	Δ*							**		
				<b>Location</b>	<u>Le</u>	oc Oty	Loc Code			
				ST339		256				_
		e .		119328		100				
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				120423		.73				<del></del>
				120910		30				<del>_</del>
AN960JD416	NAS1149D0463J	Purchased	No		220	Each	14.0000	32	32	
*AN960.1	D416*							**		
				<b>Location</b>	<u>L</u> e	oc Qty	Loc Code			
				ST351		14				_
				116289		14				_
AN960JD516	NAS1149D0563J	Purchased	No		220	Each	0.0000	8	8	
*AN960.1	D516*							**		
D3500-1		Manufactured	No		220	Each	35.0000	4	4	
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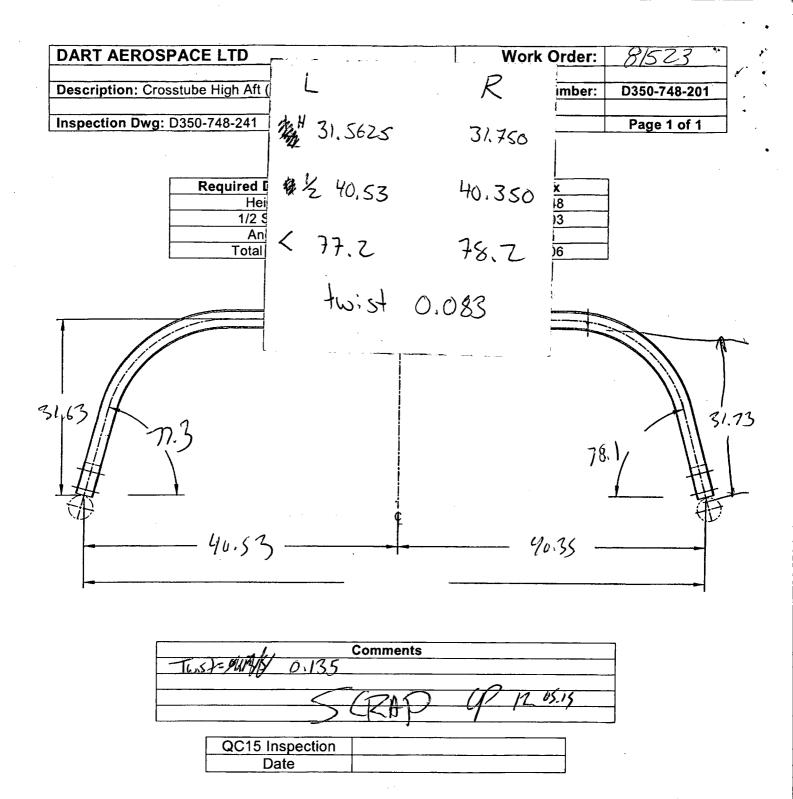
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Parent Item Name: Crosstube Insta	allation, High Aft	1 /	.).)()-/4()-/	111		Star	t Date: 15	5/03/2012	Required Date: 04/04/2012
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NCTE: Date & initial all entries

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Item	Qty -241	Part Number	Description
1	Х	D350-748-241	CROSSTUBE ASSEMBLY (AS 350/355 HI AFT)
2	1	D6015-125	CROSSTUBE (OR D6018-125)
3	2	D3502-1	SUPPORT
4	2	D2856-400-710	ABRASION STRIP
5	1	AELS-1032-225	INSERT
6	1	NAS1149D0363J	WASHER (OR AN960JD10)
7	2	MS21920-20	CLAMP (PER DART SPEC. M-MS21920-20)
8	1	MS27039-1-10	SCREW

### **GENERAL NOTES:**



1) MATERIAL: MANUFACTURED FROM D6015-125 OR D6018-125 FINISHED LENGTH = 122,700±0.06

2) FINISH: MAGNETIC PARTICLE INSPECT PER DART QSI 038 42 CADMIUM PLATE PER AMS-QQ-P-416B, CLASS 1, TYPE II PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2

- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- UNITS: INCHES UNLESS OTHERWISE NOTED.
- BREAK SHARP EDGES: 0,005 TO 0,010 MAX
- 6) IDENTIFICATION: DART PART NUMBER "D350-748-241" AND BATCH NUMBER ON INSIDE OF CUFF PER DART QSI 044 6.4 (VIBRATING STYLUS)
- 7) WEIGHT: 29.85 lbs
- PART IS SYMMETRIC ABOUT CENTERLINE, EXCEPT FOR Ø0.297 HOLE.
- RUN CUTTER OFF PART WHERE INDICATED. BLEND OUT ALL EDGES FROM MACHINING LONGITUDINALY, TRANSITION SHOULD BE SMOOTH. NOTE: ALL HOLES ARE DRILLED AFTER
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 7 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.
- 11) HEAT TREAT TO MIN. 180 KSI PER MIL-T-6736 OR AMS 2759-1C AFTER TURNING. ACCEPTABLE TO VERIFY TENSILE STRENGTH BY HARDNESS TEST PER ASTM E18 TO 40-45 HRC.
- 12) INSTALL D2856-400-710 ABRASION STRIPS WITH A GAP ON BOTTOM SIDE OF CROSSTUBE, CENTERED OPPOSITE D3502-1 SUPPORT, PER QSI 035.
- 13) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE. WHEN DRILLING HOLES EXTREME CARE MUST BE TAKEN AND CAREFUL DEBURRING PERFORMED TO ENSURE A CLEAN HOLE WITH NO CRACKING/CHIPPING/GROOVES.
- 14) TORQUE CLAMPS 60 TO 80 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

15) MAX TWIST AFTER BENDING: WITH XTUBE LAYED FLAT ON SURFACE, THE DIFFERENCE BETWEEN CUFF HEIGHTS FROM THE SURFACE MAY BE NO LARGER THAN 0.25 (ZN C1-3).

SHOP COPY **RETURN TO ENGINEERING UNCONTROLLED COPY** SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER 12/03/15

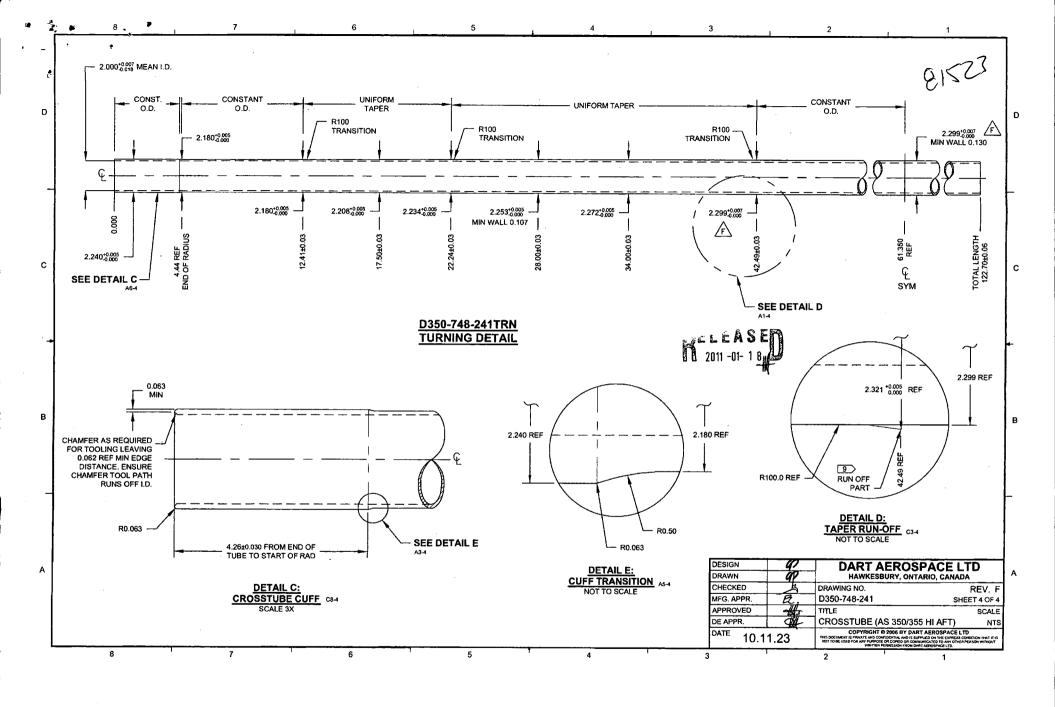


DESIGN	47	DART AEROSPA	4CE I	LTD				
REV.		SCRIPTION	BY	DATE				
Α.	NEW ISSUE		CP	06.03.31				
В	ADD D6018-125 & PRIMI	E AND PAINT	CP	06.06.30				
С	ADD CAD PLATING		CP	06.08.14				
Ð	MAG. PARTICLE AND C	AD PLATE AS MFD.	CP	06.10.31				
E	STANDARDS; RELOCA (ZN A8-3); ADD TOLERA	REVISE GENERAL NOTES; UPDATE TO CURRENT STANDARDS; RELOCATED FLAG #6 PER PAR 08-046 (ZN A8-3); ADD TOLERANCES (ZN C6-3, D2-3)						
F	ADD HRC TEST OPTION (B8-1) PER PAR 09-040, ADD TWIST LIMIT (A8-1, C1-3), ADD 06015-125 OPTION (C8-1), STOCK DIM NOW MACHINED (D1-4)  10.11.23							

HAWKESBURY, ONTARIO, CANADA CHECKED DRAWING NO. REV. F MFG. APPR. D350-748-241 SHEET 1 OF 4 APPROVED TITLE SCALE DE APPR CROSSTUBE (AS 350/355 HI AFT) NTS DATE COPYRIGHT © 2006 BY DART AEROSPACE LTD 10.11.23

В

W/O:		WORK ORDER CHANGES									
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Dart Aerospace	Ltd

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4	1	, REV. F	DART AI	EROSPACE LTD	D.E.O. NO.	SHEET NO.	SCALE
	CROSSTUBE (/	(AS 350/355 HI AFT)		ERING ORDER		SHEET 1 OF 1	NTS
DRAWN (		IECKED 13	MFG. APPR.	M	APPROVED A	DE APPR.	
DATE 12.04	.02 DAT	TE 12.04.03	DATE /	2.04.03	DATE 12-04-03	DATE 12.04.03	

<u>PURPOSE:</u> ADD A STRESS RELIEF OPERATION FOLLOWING BENDING

## CHANGE:

ADD

10) AFTER BENDING: STRESS RELIEF AT 650°F ± 25°F FOR A MINIMUM OF 2 HRS. AIR COOL TO AMBIENT TEMPERATURE (REF. AMS2759/1E)

# METCOR INC. 560 BOUL. ARTHUR-SAUVÉ ST-EUSTACHE, QC, J7R 5A8

Tel: 450-473-1884 / Fax: 450-491-5498

## Certificat de Conformité Bétaillé

Detailed Certificate of Compliance

BON DE TRAVAIL	CHARGEMENT
order	load
175005	1

CLIENT / customer 215
DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

~

ON K6A 1K7

LIVRÉ À / shipped to: DART AEROSPACE 1270 ABERDEEN HAWKESBURY

ON K6A 1K7

COMMANDE DU CLIE	ENT BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
PO16638		Steel		

## SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

STRESS REL

**SAE AMS 2759/1 REV.E** 

EXIGENCE / requirement SPÉCIFICATIONS / specified TESTS EXÉCUTÉS / performed RÉSULTATS DE TESTS / results Visual

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
9	270	D350-748-101
		(7) CROSS TUBE
	₹ F	(2) D350-748-201 CROSS TUBE
		CONTENANT: 1 NIL

Operation	Temp. spécifiée Specified Temp	Temps de trempe Spécifié Specified Soak Temp	Atmosphere	Carbone Carbon Potential	Q-Media Q-Temp	Four # Furnace #		Heure d'entrée Time In	Heure de sortie Time Out	Date Complétée Date complete
1,00 CONT. INIT.			si nécessaire							
2,00 PREPARING	COMPTAGE									
3,00 STRESS RE		2 hrs	air			701				
4,00 FINAL INSP							04-05-2012			04-05-2012

## COMMENTAIRES / comments

ALL THE HEAT TREATMENT PROCESSING PERFORMED ON THIS ORDER WAS ACCOMPLISHED USING HEAT TREATMENT EQUIPEMENT THAT MEETS THE REQUIREMENTS OF AMS 2759. ALL THE HEAT TREATMENT OPERATIONS WERE ACCOMPLISHED IN ACCORDANCE WITH THE REQUESTED/REQUIRED HEAT TREATMENT SPECIFICATION AND ALL REQUIRED VERIFICATIONS TEST HAVE BEEN PERFORMED AND DOCUMENTED. NO UNAUTHORIZED CHANGES OR DEVIATIONS TO REQUIRED HEAT TREATMENT SPECIFICATIONS OR PROCEDURES HAVE BEEN PERFORMED.

## METCOR INC. 560 BOUL. ARTHUR-SAUVÉ ST-EUSTACHE, QC, J7R 5A8

Tel: 450-473-1884 / Fax: 450-491-5498

# Certificat de Conformité Détaillé

Detailed Certificate of Compliance

BON DE TRAVAIL	CHARGEMENT
order	load
175005	1

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CLIENT / customec 215
DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to: DART AEROSPACE 1270 ABERDEEN HAWKESBURY

ON K6A 1K7

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APPROUVÉ par / Approved by:	XX.	Za/l.	\ 16 /	DATE: 2012-04-05
AFFROOVE pai / Approved by.	1200	1 or any	16)	DATE: 2012-04-05
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Metcor Inc. 560, boul. Arthur-Sauvé

Certificat S-Eustache (Québec) 178.548

Certificate reconcurrated interaction: @50 491-5498

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<u>CLIENT / customer 215</u> INAT REROSPACE 1010 ARERDEEN RAWKESBURY

ON K6A 1K7

UVRÉ À / shipped to: DART AEROSPACE 1270 ABERDEEN HAWKESBURY

ON K6A 1K7

COMMANDE DU CLIER	T CONDELIVRAISON DU CUENT CUSTOMER STIPPER NO.	MATÉRIEL material	CODE DE TRAITEMENT mai'l heat code	NUMÉRO DE LOT iot number	
		Steel			
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	proc	essing specifications			
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BAE AMS 2758/1 REV.5					
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**COMMENTAIRES / comments** 

NSPECTEUR / inspector:

WELCOR

DATE: 2012-04-05

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## CERTIFICATE OF CONFORMANCE

# CADORATH PLATING CO. LTD. 2150 LOGAN AVENUE WINNIPEG, MANITOBA R2J-0J1

DATE:

May-08-2012

CONSIGNED TO: Dart Aerospace Ltd.

1270 Aberdeen St.

Hawksbury, ON K6A 1K7

W/O #:

114046

INVOICE #:

OTY

60317

CONTRACT OR

PURCHASE ORDER #

PO16826

DESCRIPTION:

SKID

S/N # 81523

P/N# d350-748-201

CADMIUM PLATE IAW AMS-QQ-P-416C TYPE 2 YELLOW CLASS 2. MPI IAW ASTM-E-1444. BAKE HEAT CHART # 12-425 AND # 12-451.

> CERTIFICATE: I certify that the items indicated here on have been inspected and tested and conform to all specifications and requirements detailed on the contract or purchase order.

Approved Inspector:

CUREN	

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	For Result						
Exendue des So	ervices  aguelle le Groupe Acuren Inc. exécute les aquelle les expressions d'opinions f	services ne concerne que les énoncés aites par Acuren reflètent les opinions aites par Acuren somme constituant. Le G	par écrit. En aucune circonsta ou les observations de l'entrep roupe Acuren Inc. n'assume au	uce ces services ne s'étendent ise fondées sur l'information cune des responsabilités du p es fournies par Acuren en rap	au-delà de l'exécution des se et les hypothèses fournies par ropriétaire/opérateur, et le pr port avec les services décrits a	rvices demandés. Il est entent le propriétaire/opérateur, et ch opriétaire/opérateur conserve ans les présentes nc peuvent es	du que tous les ne cons la respons xcéder le co
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# RAPPORT D'ESSAI NON DESTRUCTIF

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'enteni escript	ions, les obser	le le Groupe Acuren Inc vations et les expression	aurent être internré				on et les hypothèse	xécution des services s fournies par le prop ateur, et le propriéta vices décrits dans les	rtetaire:operaieur. c	ma la resnon
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